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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,970	01/18/2002	Bruce A. Gnade	4380.000300/KDG	1567
	590 12/01/2004		EXAMINER	
WILLIAMS, MORGAN & AMERSON, P.C. 10333 RICHMOND, SUITE 1100			MAYEKAR, KISHOR	
HOUSTON, T.			ART UNIT	PAPER NUMBER
			1753	

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	Mis
	10/051,970	GNADE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kishor Mayekar	1753	
The MAILING DATE of this communication			race
Period for Reply			,
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by standard period for reply will, by standard period for reply will, so the communication of the period by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a re n. a reply within the statutory minimum of thirty rirod will apply and will expire SIX (6) MONT	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this comm	munication.
Status			
1) Responsive to communication(s) filed on 13		•	
	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal matte	ers, prosecution as to the m	nerits is
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>11-60</u> is/are pending in the applica	ation.		
4a) Of the above claim(s) is/are without			
5) Claim(s) is/are allowed.			
6) Claim(s) <u>11-60</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8)☐ Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exami	iner		
10)☐ The drawing(s) filed on is/are: a)☐ a		v the Evaminer	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s	s) is objected to. See 37 CFR 1	1 121(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of:		l19(a)-(d) or (f).	
 Certified copies of the priority docume Certified copies of the priority docume 			
	ints have been received in App	olication No	
3. Copies of the certified copies of the pr application from the International Bure	TOTILY GOCUMENTS have been re	sceived in this National Sta	ge
* See the attached detailed Office action for a list	st of the certified conies not re	poolivad	
	se of the continue copies flee to	ceiveu.	
Attachment(s) 1) Notice of References Cited (PTO-892)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) La Interview Sum Paper No(s)/N	nmary (PTO-413) Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	8) 5) Notice of Infor	rmal Patent Application (PTO-152	2)
Paper No(s)/Mail Date	6)		

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DETAILED ACTION

Claim Rejections - 35 USC \$ 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 11, 14, 16, 19, 21, 24, 26, 29, 41, 44, 46 and 49 stand rejected under 35 U.S.C. 102(b) as being clearly anticipated by CHALAMALA et al. (first publication with H_2O interaction), for reasons as of record.
- 3. Claims 11, 14, 16, 19, 21, 24, 26, 29, 41, 44, 46 and 49 stand rejected under 35 U.S.C. 102(b) as being clearly anticipated by CHALAMALA et al. (second publication with O_2 interaction), for reasons as of record.
- 4. Claims 12, 13, 17, 18, 22, 23, 25, 27, 28, 30-40, 42, 43, 45, 47, 48 and 51-60 stand rejected under 35 U.S.C. 103(a) as being unpatentable over either of publication 1 or 2 in view of Applicant's admission, for reasons as of record.

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Response to Arguments

5. Applicant's arguments filed 13 August 2004 have been fully considered but they are not persuasive.

In response to Applicant's argument that the cited references fail to describe or suggest reacting at least one radical species with at least one of a chemical and biological toxin, since the references discloses the step of interacting of oxygen with a molybdenum (a substance used in a chemical process or for producing a chemical effect) in the second publication and the interact of oxygen with a molybdenum and of hydrogen with the oxides in the first publication (paragraph crossing left and right columns of page 304), the references does teach the step of reacting the at least one radical species with a chemical.

As to the argument on the rejected claims 21, 26, 31, 36,41, 46, 51 and 56, the same is applied and further the references discloses the steps of exposing a low-power field emitter array to a chemical H_2O or O_2 and the step of dissociating (or ionizing) the chemical (lines 3-5 of the first full paragraph in page 303 of the first publication).

Conclusion

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6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kishor Mayekar Primary Examiner Art Unit 1753